

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A system for collaborative processing with distributed applications, comprising:

at least one application context in which an application is executed, the context including an application CGI for managing the application, and a communication interface on which application data is communicated as messages; and

a messaging bus configured to communicate the messages for processing by the application; and

at least one gateway context including a gateway CGI configured for maintaining two-way asynchronous communication between the messaging bus and a remote application through a firewall, the CGI being configured to maintain the communication until termination by the remote application or the CGI.

2. (Original) The system of claim 1, further comprising at least one remote application that communicates messages to the application via the messaging bus.

3. (Original) The system of claim 1, further comprising a web server in communication with the application CGI.

4. (Original) The system of claim 3, wherein the application context includes an administration CGI in communication between the web server and the application CGI for receiving information about the application and providing a document for transmission by the web server.

5. (Cancelled).
6. (Original) The system of claim 1, further comprising a messaging bus extension adapted for maintaining direct socket connections between the messaging bus and remote applications.
7. (Original) The system of claim 6, wherein the messaging bus extension includes a multiplexer for multiplexing one or more direct socket connections to the messaging bus.
8. (Original) The system of claim 1, wherein the messaging bus is configured to communicate with one or more other messaging busses, and wherein each other messaging bus is resident on a remote host.
9. (Original) The system of claim 8, wherein the messaging bus is configured to communicate according to a multicast protocol.
10. (Original) The system of claim 1, wherein each application is configured to publish and subscribe message data with other applications via the messaging bus.
11. (Original) The system of claim 6, wherein the messaging bus extension is configured to publish and subscribe message data between applications.
12. (Original) The system of claim 1, wherein the messaging bus includes a filter for filtering the message data.
13. (Original) The system of claim 12, wherein the filter is configured to filter messages according to a filter criteria executed by each application.
14. (Original) The system of claim 4, wherein the administration CGI is configured to format application data retrieved from the application through the application CGI into presentation data that is readable by another application.

15. (Original) The system of claim 14, wherein the presentation data is in a format that is readable by a web browser.
16. (Original) The system of claim 14, wherein the format of the presentation data is in HTML.
17. (Original) The system of claim 2, wherein the at least one remote application generates presentation data that is readable by another application.
18. (Original) The system of 17, wherein the presentation data is in a format that is readable by a web browser.
19. (Original) The system of claim 18, wherein the format of the presentation data is in HTML.
20. (Currently Amended) The system of claim 17, wherein ~~the web browser~~ a web browser is configured to read the presentation data.
21. (New) A system for collaborative processing with distributed applications, comprising:
  - at least one application context in which an application is executed, the context including an application CGI for managing the application, and a communication interface on which application data is communicated as messages; and
  - a messaging bus configured to communicate the messages for processing by the application; and
  - at least one gateway context including a gateway CGI configured for maintaining two-way asynchronous communication between the messaging bus and a remote application through a firewall, the CGI being configured to:
    - a) receive a request from the remote application;

b) execute operations associated with the CGI, wherein the operations are configured to perform the two-way asynchronous communication with the remote application;  
and

c) repeat at least one of the operations in step b) until termination of the CGI by the remote application or the CGI.